WHAT WE CLAIM ARE:

- 1. A method of manufacturing a semiconductor light emitting device, comprising the steps of:
 - (a) preparing a first substrate;
- 5 (b) forming a ball-up preventive layer on said first substrate;
 - (c) forming a bonding layer made of eutectic material on said ballup preventive layer to obtain a support substrate;
 - (d) preparing a second substrate;
- (e) forming a semiconductor light emitting structure on said secondsubstrate;
 - (f) forming a first electrode in at least a partial surface area of said semiconductor light emitting structure;
 - (g) forming a barrier layer on a surface including an upper surface of said first electrode;
- (h) forming a metal layer on said barrier layer to obtain a device substrate:
 - (i) bonding together said bonding layer of said support substrate
 and said metal layer of said device substrate to obtain a bonded structure;
 - (j) removing said second substrate from said bonded structure; and
- 20 (k) forming a second electrode in a partial surface area of said semiconductor light emitting structure exposed on a surface of said bonded structure at said step (j) to obtain the semiconductor light emitting device,

wherein:

in said step (i), eutectic material of said bonding layer forms

25 eutectic with said metal layer to bond together said support substrate and said

device substrate;

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said ball-up preventive layer prevents ball-up of said bonding layer;

said barrier layer prevents a composition of a material of said first

electrode from diffusing into said barrier layer and prevents the eutectic material

of said bonding layer from intruding into said first electrode.

- 2. The method of manufacturing a semiconductor light emitting device according to claim 1, wherein in said step (a), said first substrate is a Si substrate doped with n- or p-type impurities.
 - 3. The method of manufacturing a semiconductor light emitting device according to claim 1, wherein said step (a) comprises:
 - (I) preparing a conductive substrate; and
 - (m) alloying Au on at least one surface of said conductive substrate.
 - 4. The method of manufacturing a semiconductor light emitting device according to claim 1, wherein said step (b) comprises:
- (n) forming a layer having high adhesion with said first substrate on 20 said first substrate; and
 - (p) forming a layer for improving wettability of a layer to be formed thereon on said layer having high adhesion with said first substrate.
- 5. A method of manufacturing a semiconductor light emitting device according25 to claim 1, wherein said step (b) comprises:

- (q) forming a Ti layer on said first substrate; and
- (r) forming an Ni layer on said Ti layer.
- 6. The method of manufacturing a semiconductor light emitting device 5 according to claim 1, wherein said step (g) comprises:
 - (s) forming a first barrier layer on said first electrode, said first barrier layer preventing diffusion of a composition of a material constituting said first electrode; and
- (t) forming a second barrier layer on a surface including an upper
 surface of said first barrier layer, said second barrier layer preventing the eutectic material of said bonding layer from intruding into said first electrode.
- The method of manufacturing a semiconductor light emitting device
 according to claim 6, wherein said first barrier layer is made of Ti-W-nitride and said second barrier layer is made of an Al/Ta lamination, an Al/Mo lamination or an Al/W lamination.
- The method of manufacturing a semiconductor light emitting device
 according to claim 6, wherein said step (g) further comprises after said step (s) a step of:
 - (u) patterning said first barrier layer and said first electrode in a same shape.
- 25 9. The method of manufacturing a semiconductor light emitting device

according to claim 8, wherein said second barrier layer has a higher reflectance than a reflectance of said first electrode, relative to light emitted from said semiconductor light emitting structure.

- 5 10. The method of manufacturing a semiconductor light emitting device according to claim 9, wherein said second barrier layer includes an Al layer in contact with said semiconductor light emitting structure.
 - 11. A semiconductor light emitting device comprising:
- 10 a substrate:
 - a ball-up preventive layer formed on said substrate;
 - a bonding layer made of eutectic material and formed on said ballup preventive layer;
 - a metal layer formed on said bonding layer;
- a barrier layer formed on said metal layer;
 - a first electrode formed on or in parallel with said barrier layer;
 - a semiconductor light emitting structure formed on a surface

including an upper surface of said first electrode; and

- a second electrode formed on a partial surface of said
- 20 semiconductor light emitting structure,

wherein:

eutectic material of said bonding layer forms eutectic with said metal layer to bond together said bonding layer and said metal layer;

said ball-up preventive layer prevents ball-up of said bonding layer;

25 and

said barrier layer prevents a composition of a material of said first electrode from diffusing into said barrier layer and prevents the eutectic material of said bonding layer from intruding into said first electrode.

- 5 12. The semiconductor light emitting device according to claim 11, wherein said substrate is formed of a Si substrate doped with n- or p-type impurities.
 - 13. The semiconductor light emitting device according to claim 11, wherein said substrate comprises a conductive substrate, and an Au layer alloyed with at least one surface of said conductive substrate.
 - 14. The semiconductor light emitting device according to claim 11, wherein said ball-up preventive layer comprises a layer having high adhesion with said substrate and formed on said substrate, and a layer for improving wettability of said bonding layer formed on said layer having high adhesion with said substrate.
 - 15. The semiconductor light emitting device according to claim 11, wherein said ball-up preventive layer includes a Ti layer formed on said substrate and an Ni layer formed on said Ti layer.

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16. The semiconductor light emitting device according to claim 11, wherein said barrier layer includes a first barrier layer formed on said metal layer, capable of preventing the eutectic material of said bonding layer from intruding into said first electrode, and a second barrier layer formed on or in parallel with said first barrier layer, capable of preventing a composition of a material of said first

electrode from diffusing out from said first electrode.

- 17. The semiconductor light emitting device according to claim 16, wherein said first barrier layer is made of an Al/Ta lamination, an Al/Mo lamination or an Al/W lamination and said second barrier layer is made of Ti-W-nitride.
- 18. The semiconductor light emitting device according to claim 16, wherein said first barrier layer and said first electrode are patterned in a same shape on said semiconductor light emitting structure.

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- 19. The semiconductor light emitting device according to claim 18, wherein said second barrier layer has a higher reflectance than a reflectance of said first electrode, relative to light emitted from said semiconductor light emitting structure.
- 15 20. The semiconductor light emitting device according to claim 19, wherein said second barrier layer includes an Al layer in contact with said semiconductor light emitting structure.